

IS 413 Quiz #0

Name: _____

The purpose of this take-home quiz is to assess your general knowledge of java and objected-oriented programming. Please provide short answers to the questions below. You may use internet or printed resources to answer the questions, but you are expected to do your own work. You will not receive any credit if you do not do your own work. Please be prepared to discuss your answers in class next week. This quiz is worth 5% of your grade. Each question has equal weight.

- 1) What is a class? What is an object? Please give an example of each.
- 2) What is a thread? What class is used to construct a Thread in java?
- 3) How is a java program compiled and run using the Java Development Kit? Show the actual command line commands to compile a run a program called *HelloWorld*.
- 4) What is an Exception? What class is used to represent an Exception in java? Please give the full name of the class.
- 5) How does one lookup the details of a class in the Java Class Library?
- 6) Objects contain _____ and _____.
- 7) A collection of methods with no implementation is called an _____.
- 8) A namespace that organizes classes and interfaces by functionality is called a _____.
- 9) Provide the declaration for a data structure that will hold an unknown number of objects of type String.
- 10) What is the derivative of the function $y = (3x^2 + 7)^3$? Please show your work.